



SEQUENCE LISTING

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<120> Compositions and Methods for the
Treatment of Disease

<130> 048501/273281

<140> US 10/755,545
<141> 2004-01-12

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<151> 2002-07-12

<150> AU PR6381
<151> 2001-07-13

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Glu Leu Ser Lys Glu Glu Cys Cys Ser Thr Gly Arg Leu Ser Thr Ser
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Trp Thr Glu Glu Asp Val Asn Asp Asn Thr Leu Phe Lys Trp Met Ile
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Phe Asn Gly Gly Ala Pro Asn Cys Ile Pro Cys Lys Glu Thr Cys Glu
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Asn Val Asp Cys Gly Pro Gly Lys Cys Arg Met Asn Lys Lys Asn
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Lys Pro Arg Cys Val Cys Ala Pro Asp Cys Ser Asn Ile Thr Trp Lys
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Gly Pro Val Cys Gly Leu Asp Gly Lys Thr Tyr Arg Asn Glu Cys Ala
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Leu Leu Lys Ala Arg Cys Lys Glu Gln Pro Glu Leu Glu Val Gln Tyr
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Gln Gly Arg Cys Lys Lys Thr Cys Arg Asp Val Phe Cys Pro Gly Ser
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Ser Thr Cys Val Val Asp Gln Thr Asn Asn Ala Tyr Cys Val Thr Cys
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 Asn Arg Ile Cys Pro Glu Pro Ala Ser Ser Glu Gln Tyr Leu Cys Gly
 195 200 205
 Asn Asp Gly Val Thr Tyr Ser Ser Ala Cys His Leu Arg Lys Ala Thr
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 Cys Leu Leu Gly Arg Ser Ile Gly Leu Ala Tyr Glu Gly Lys Cys Ile
 225 230 235 240
 Lys Ala Lys Ser Cys Glu Asp Ile Gln Cys Thr Gly Gly Lys Lys Cys
 245 250 255
 Leu Trp Asp Phe Lys Val Gly Arg Gly Cys Ser Leu Cys Asp Glu
 260 265 270
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 35 40 45
 Ser Leu Val Leu Gln Thr Asp Val Thr Arg Ala Glu Cys Cys Ala Ser
 50 55 60
 Gly Asn Ile Asp Thr Ala Trp Ser Asn Leu Thr His Pro Gly Asn Lys
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 Ile Asn Leu Leu Gly Phe Leu Gly Leu Val His Cys Leu Pro Cys Lys
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 100 105 110
 Leu Gly Gly Arg Pro Arg Cys Glu Cys Ala Pro Asp Cys Ser Gly Leu
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 Pro Ala Arg Leu Gln Val Cys Gly Ser Asp Gly Ala Thr Tyr Arg Asp
 130 135 140
 Glu Cys Glu Leu Arg Ala Ala Arg Cys Arg Gly His Pro Asp Leu Ser
 145 150 155 160
 Val Met Tyr Arg Gly Arg Cys Arg Lys Ser Cys Glu His Val Val Cys
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 Pro Arg Pro Gln Ser Cys Val Val Asp Gln Thr Gly Ser Ala His Cys
 180 185 190
 Val Val Cys Arg Ala Ala Pro Cys Pro Val Pro Ser Ser Pro Gly Gln
 195 200 205
 Glu Leu Cys Gly Asn Asn Asn Val Thr Tyr Ile Ser Ser Cys His Met
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aaaaaaaaacac caaaaaaaaaa aataaaaaaa tccacacaca caaaaaacct gcgcgtgatc 180
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 70 75 80

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130          135          140          145

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gaa gtg ggc tta aag ggg gag agg agt gaa ctg ttg ctc tct gaa aaa Glu Val Gly Leu Lys Gly Glu Arg Ser Glu Leu Leu Ser Glu Lys 195 200 205	863
gta gta gac gct cgg aag agc acc ttg cat gtc ttc cct gtc tcc agc Val Val Asp Ala Arg Lys Ser Thr Trp His Val Phe Pro Val Ser Ser 210 215 220 225	911
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att gcc tgt gag cag tgc cag gag agt ggc gcc agc ttg gtt ctc ctg Ile Ala Cys Glu Gln Cys Gln Glu Ser Gly Ala Ser Leu Val Leu Leu 245 250 255	1007
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aga cct ttc ctc atg ctg cag gcc cgg cag tct gaa gac cac cct cat Arg Pro Phe Leu Met Leu Gln Ala Arg Gln Ser Glu Asp His Pro His 290 295 300 305	1151
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Asn Ser Gln Pro Glu Met Val Glu Ala Val Lys Lys His Ile Leu Asn 50 55 60			
Met Leu His Leu Lys Lys Arg Pro Asp Val Thr Gln Pro Val Pro Lys 65 70 75 80			
Ala Ala Leu Leu Asn Ala Ile Arg Lys Leu His Val Gly Lys Val Gly 85 90 95			
Glu Asn Gly Tyr Val Glu Ile Glu Asp Asp Ile Gly Arg Arg Ala Glu 100 105 110			
Met Asn Glu Leu Met Glu Gln Thr Ser Glu Ile Ile Thr Phe Ala Glu 115 120 125			
Ser Gly Thr Ala Arg Lys Thr Leu His Phe Glu Ile Ser Lys Glu Gly 130 135 140			
Ser Asp Leu Ser Val Val Glu Arg Ala Glu Val Trp Leu Phe Leu Lys 145 150 155 160			
Val Pro Lys Ala Asn Arg Thr Arg Thr Lys Val Thr Ile Arg Leu Phe 165 170 175			
Gln Gln Gln Lys His Pro Gln Gly Ser Leu Asp Thr Gly Glu Glu Ala 180 185 190			
Glu Glu Val Gly Leu Lys Lys Gly Glu Arg Ser Glu Leu Leu Ser Glu 195 200 205			
Lys Val Val Asp Ala Arg Lys Ser Thr Trp His Val Phe Pro Val Ser 210 215 220			
Ser Ser Ile Gln Arg Leu Leu Asp Gln Gly Lys Ser Ser Leu Asp Val 225 230 235 240			
Arg Ile Ala Cys Glu Gln Cys Gln Glu Ser Gly Ala Ser Leu Val Leu 245 250 255			

Leu Gly Lys Lys Lys Lys Glu Glu Glu Gly Glu Lys Lys Lys
 260 265 270
 Gly Gly Gly Glu Gly Ala Gly Ala Asp Glu Glu Lys Glu Gln Ser
 275 280 285
 His Arg Pro Phe Leu Met Leu Gln Ala Arg Gln Ser Glu Asp His Pro
 290 295 300
 His Arg Arg Arg Arg Gly Leu Glu Cys Asp Gly Lys Val Asn Ile
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 Cys Cys Lys Lys Gln Phe Phe Val Ser Phe Lys Asp Ile Gly Trp Asn
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 Asp Trp Ile Ile Ala Pro Ser Gly Tyr His Ala Asn Tyr Cys Glu Gly
 340 345 350
 Glu Cys Pro Ser His Ile Ala Gly Thr Ser Gly Ser Ser Leu Ser Phe
 355 360 365
 His Ser Thr Val Ile Asn His Tyr Arg Met Arg Gly His Ser Pro Phe
 370 375 380
 Ala Asn Leu Lys Ser Cys Cys Val Pro Thr Lys Leu Arg Pro Met Ser
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Val Asp Gly Asp Phe Leu Glu Ala Val Lys Arg His Ile Leu Ser Arg					
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Leu Gln Met Arg Gly Arg Pro Asn Ile Thr His Ala Val Pro Lys Ala					
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Ala Met Val Thr Ala Leu Arg Lys Leu His Ala Gly Lys Val Arg Glu					
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gac ggc cgc gtg gag atc ccg cac ctc gac ggc cac gcc agc ccg ggc					239
Asp Gly Arg Val Glu Ile Pro His Leu Asp Gly His Ala Ser Pro Gly					
65	70	75			
gcc gac ggc cag gag cgc gtt tcc gaa atc atc agc ttc gcc gag aca					287
Ala Asp Gly Gln Glu Arg Val Ser Glu Ile Ile Ser Phe Ala Glu Thr					
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130 135 140	
cgg gtc aaa gtg tac ttc cag gag cag ggc cac ggt gac agg tgg aac Arg Val Lys Val Tyr Phe Gln Glu Gln Gly His Gly Asp Arg Trp Asn	479
145 150 155	
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Asn Ile Val Lys Arg Asp Val Pro Asn Met Ile Val Glu Glu Cys Gly
340 345 350

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Cys Ala *

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Met Val Thr Ala Leu Arg Lys Leu His Ala Gly Lys Val Arg Glu Asp
50 55 60
Gly Arg Val Glu Ile Pro His Leu Asp Gly His Ala Ser Pro Gly Ala
65 70 75 80
Asp Gly Gln Glu Arg Val Ser Glu Ile Ile Ser Phe Ala Glu Thr Asp
85 90 95
Gly Leu Ala Ser Ser Arg Val Arg Leu Tyr Phe Phe Ile Ser Asn Glu
100 105 110
Gly Asn Gln Asn Leu Phe Val Val Gln Ala Ser Leu Trp Leu Tyr Leu
115 120 125
Lys Leu Leu Pro Tyr Val Leu Glu Lys Gly Ser Arg Arg Lys Val Arg
130 135 140
Val Lys Val Tyr Phe Gln Glu Gln Gly His Gly Asp Arg Trp Asn Met
145 150 155 160
Val Glu Lys Arg Val Asp Leu Lys Arg Ser Gly Trp His Thr Phe Pro
165 170 175
Leu Thr Glu Ala Ile Gln Ala Leu Phe Glu Arg Gly Glu Arg Arg Leu

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Val Phe Val Asp Pro Gly Glu Glu Ser His Arg Pro Phe Val Val Val			
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Gln Ala Arg Leu Gly Asp Ser Arg His Arg Ile Arg Lys Arg Gly Leu			
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Glu Cys Asp Gly Arg Thr Asn Leu Cys Cys Arg Gln Gln Phe Phe Ile			
245	250	255	
Asp Phe Arg Leu Ile Gly Trp Asn Asp Trp Ile Ile Ala Pro Thr Gly			
260	265	270	
Tyr Tyr Gly Asn Tyr Cys Glu Gly Ser Cys Pro Ala Tyr Leu Ala Gly			
275	280	285	
Val Pro Gly Ser Ala Ser Ser Phe His Thr Ala Val Val Asn Gln Tyr			
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Arg Met Arg Gly Leu Asn Pro Gly Thr Val Asn Ser Cys Cys Ile Pro			
305	310	315	320
Thr Lys Leu Ser Thr Met Ser Met Leu Tyr Phe Asp Asp Glu Tyr Asn			
325	330	335	
Ile Val Lys Arg Asp Val Pro Asn Met Ile Val Glu Glu Cys Gly Cys			
340	345	350	
Ala			